

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/535,142	05/17/2005	Go Mizutani	441P094	5678
42754	7590 10/24/2006		EXAMINER	
NIELDS & LEMACK 176 EAST MAIN STREET, SUITE 7 WESTBORO, MA 01581		•	BERNSHTEYN, MICHAEL	
			ART UNIT	PAPER NUMBER
			1713	
			DATE MAILED: 10/24/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	•		
· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)	_
	10/535,142	MIZUTANI ET AL.	
Office Action Summary	Examiner	Art Unit	
·	Michael Bernshteyn	1713	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	ith the correspondence address	_
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a will apply and will expire SIX (6) MON , cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status	•	·	
Responsive to communication(s) filed on 14 S     This action is <b>FINAL</b> . 2b) ☑ This     Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final.	•	
Disposition of Claims	•		
4) ⊠ Claim(s) 1-3,6,7 and 9 is/are pending in the ap 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 1-3,6,7 and 9 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to drawing(s) be held in abeyation is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document	s have been received.		
<ul><li>2. Certified copies of the priority document</li><li>3. Copies of the certified copies of the priority</li></ul>		· · · · · · · · · · · · · · · · · · ·	
application from the International Bureau	·	received in this National Stage	
* See the attached detailed Office action for a list	, , , ,	received.	
		· ·	
Attachment(s)			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO/SB/08)</li> <li>Paper No(s)/Mail Date <u>08/18/2006</u>.</li> </ol>	Paper No(	Summary (PTO-413) s)/Mail Date nformal Patent Application 	

Application/Control Number: 10/535,142

Art Unit: 1713

Page 2

## Continued Examination Under 37 CFR 1.114

**DETAILED ACTION** 

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 14, 2006 has been entered.
- 2. This Office Action is being provided in reply to the amendment accompanying the foregoing RCE. Applicants have amended claim 1, no claims have been cancelled or added.
- 3. Claims 1-3, 6-7 and 9 are active.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

Application/Control Number: 10/535,142 Page 3

Art Unit: 1713

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-3, 6-7 and 9 are rejected under 35 U.S.C. 102(a) as being unpatentable over Ishii et al. (JP 08-194968) in view of Tokuda et al. (JP 2002-092961).

With regard to the limitations of claims 1-3, 7 and 9, Ishii discloses the protective coating agent for an optical disc, which is produced by coating the memory part of the optical disc with a radiation curing resin composition. The composition of the protective coating agent for the optical disc contains more than one (meth) acrylate, i.e., monofunctional monomer or oligomer, in a molecule (abstract).

The curing resin composition contains the following components:

the **epoxy (meth)acrylate**, for example bisphenol A epoxy (meth)acrylate. The amount of the epoxy (meth)acrylate is desirable 5-70% by weight (page 3, [0016]);

Art Unit: 1713

- mono and polyfunctional acrylate monomers, such as tricyclodecane (meth)acrylate, dicyclopentadieneneoxyethyl (meth) acrylate, dicyclopentanyl (meth) acrylate, dicyclopentanyl di (meth) acrylate, hydroxypivalic acid neopentyl glycol di (meth) acrylate, etc.; monofunctional (meth) acrylate containing a hydroxyl group, such as 2-hydroxyethyl (meth) acrylate, etc. The amount of mono and polyfunctional acrylate monomers is desirable 5-90% by weight and especially desirable 10-70% by weight. Two ore more (meth) acrylates can be mixed together depending on the class of radiation used (page 2, [0012]-[0014]);
- a photopolymerization initiators, such as **2,2-dimethoxy-1,2-diphenylethan-1-one**, 1-hydroxycyclohexyl phenyl ketone, 2-hydroxy-2methyl-1-phenylpropane-1-one, etc. The photopolymerization initiator may be used alone or in a mixture of two or more. The amount of the initiators is desirable 0.5-20% by weight (page 3, [0019]-[0020]).

Ishii clearly discloses the resin compositions in the examples 1-3 which do not contain urethane (meth) acrylate (page 4, [0025]-0027], table 1).

Ishii does not disclose that a total reflection film or a translucent reflection film comprising silver or a silver alloy.

With regard to the limitations of claims 1, 7 and 9, Tokuda discloses that UV-curable resin composition used like adhesive, which can impart high durability and hardened material thereof in a sticking type optical disk having a semitransparent

reflecting film in which the semitransparent reflecting film of one disk substrate comprises a **silver compound** or an **alloy** thereof when two sheets of the disk substrates are stuck together by the adhesive for optical disk (abstract).

Both references are analogous art because they are from the same field of endeavor concerning new adhesive compositions for optical disk.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate a silver compound or an alloy thereof when two sheets of the disk substrates are stuck together by the adhesive for optical disk as taught by Tokuda in Ishii's adhesive composition in order to obtain an adhesive, which can impart durability and hardened material thereof in a sticking type optical disk having a semitransparent reflecting film (JP'961, abstract), and thus to arrive at the subject matter of instant claim 1 and dependable claims 7 and 9.

With regard to the limitations of claim 6, Tokuda discloses that UV-curable resin composition has an electrical resistivity in the range 380-520 mPa.S/25<sup>o</sup>C, which is within the claimed range (Example 1-6, page 5, [0022]).

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Bernshteyn whose telephone number is 571-272-2411. The examiner can normally be reached on M-F 8-5:30.

Application/Control Number: 10/535,142

Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 1713

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on 571-272-1114. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

> Michael Bernshteyn **Patent Examiner** Art Unit 1713

Page 6

MB 10/20/2006

> DAVID W. WU SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1700